SEQUENCE LISTING

<110> Ashkenazi, Avi J.
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Wood, William I.

<120> COMPOUNDS, COMPOSITIONS AND METHODS FOR THE TREATMENT OF DISEASES CHARACTERIZED BY A33- RELATED ANTIGENS

<130> P1216R1C1D4

<140> 10/785,220
<141> 2004-02-24

<150> US 09/254,465
<151> 1999-03-05

<150> PCT/US98/24855
<151> 1998-11-20

<150> US 60/066,364
<151> 1997-11-21

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<151> 1998-09-17

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Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
    50                  55                  60
Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
65                  70                  75                  80
Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
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Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
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Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val
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Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
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Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
225                 230                 235                 240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
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Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
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        35                  40                  45
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
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Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65                  70                  75                  80
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
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Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
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Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
        115                 120                 125
Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
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Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
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Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
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Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
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Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
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Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
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Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
            260                 265                 270
Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
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Tyr	His	Thr	Ser	Thr	Ser	Ser	Arg	Glu	Gly	Leu
			45					50		
Ile	Gln	Trp	Asp	Lys	Leu	Leu	Leu	Thr	His	Thr
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Val	Ser	Ile	Ser	Asn	Asn	Ala	Glu	Gln	Ser	Asp
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Ala	Ser	Ile	Thr	Ile	Asp	Gln	Leu	Thr	Met	Ala
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Glu	Gly	Ser	Pro	Thr	Pro	Gln	Tyr	Ser	Trp	Lys
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			180				185			
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Phe	Cys	Asn	Ile	Thr	Val	Ala	Val	Arg	Ser	Pro
				210					215	
Ser	Met	Asn	Val	Ala	Leu	Tyr	Val	Gly	Ile	Ala
				220					225	
Val	Gly	Val	Val	Ala	Ala	Leu	Ile	Ile	Ile	Gly
			230					235		
Ile	Ile	Ile	Tyr	Cys	Cys	Cys	Cys	Arg	Gly	Lys
				240					245	
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Pro	Asn	Arg	Glu	Ala	Tyr	Glu	Glu	Pro	Pro	Glu
			260				265			
Gln	Leu	Arg	Glu	Leu	Ser	Arg	Glu	Arg	Glu	Glu
				270					275	
Glu	Asp	Asp	Tyr	Arg	Gln	Glu	Glu	Gln	Arg	Ser
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<213> Homo sapiens

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        35                  40                  45
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    50                  55                  60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
65                  70                  75                  80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
                85                  90                  95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
            100                 105                 110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
        115                 120                 125
Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
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Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
145                 150                 155                 160
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Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
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Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
        195                 200                 205
Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
    210                 215                 220
Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
225                 230                 235                 240
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            260                 265                 270
Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
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Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val
    50                  55                  60
Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala
65                  70                  75                  80
Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Ser Gly Ile Thr Phe Ser
                85                  90                  95
Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu
            100                 105                 110
Glu Gly Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu
        115                 120                 125
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145                 150                 155                 160
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Ala Lys Lys Thr Arg Ala Phe Met Asn Ser Ser Phe Thr Ile Asp Pro
            180                 185                 190
Lys Ser Gly Asp Leu Ile Phe Asp Pro Val Thr Ala Phe Asp Ser Gly
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225                 230                 235                 240
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                245                 250                 255
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            260                 265                 270
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<213> Homo sapiens

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cttgtaaccc tgattctcct gggaatcttg gtttttggca tctggtttgc ctatagccga 840
ggccactttg acagaacaaa gaaagggact tcgagtaaga aggtgattta cagccagcct 900
agtgcccgaa gtgaaggaga attcaaacag acctcgtcat tcctggtgtg agcctggtcg 960
gctcaccgcc tatcatctgc atttgcctta ctcaggtgct accggactct ggcccctgat 1020
gtctgtagtt tcacaggatg ccttatttgt cttctacacc ccacagggcc ccctacttct 1080
tcggatgtgt ttttaataat gtcagctatg tgccccatcc tccttcatgc cctccctccc 1140
tttcctacca ctgctgagtg gcctggaact tgtttaaagt gtttattccc catttctttg 1200
agggatcagg aaggaatcct gggtatgcca ttgacttccc ttctaagtag acagcaaaaa 1260
tggcgggggt cgcaggaatc tgcactcaac tgcccacctg gctggaaggg atctttgaat 1320
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tctagagcgg gaattagagg ctagagcggc tgaaatggtt gtttggtgat gacactgggg 1440
tccttccatc tctggggccc actctcttct gtcttcccat gggaagtgcc actgggatcc 1500
ctctgccctg tcctcctgaa tacaagctga ctgacattga ctgtgtctgt ggaaaatggg 1560
agctcttgtt gtggagagca tagtaaattt tcagagaact tgaagccaaa aggatttaaa 1620
accgctgctc taaagaaaag aaaactggag gctgggcgca gtggctcacg cctgtaatcc 1680
cagaggctga ggcaggcgga tcacctgagg tcgggagttc gggatcagcc tgaccaacat 1740
ggagaaaccc tactggaaat acaaagttag ccaggcatgg tggtgcatgc ctgtagtccc 1800
agctgctcag gagcctggca acaagagcaa aactccagct ca                    1842
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<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 12
tcgcggagct gtgttctgtt tccc 24

<210> 13
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 13
tgatcgcgat ggggacaaag gcgcaagctc gagaggaaac tgttgtgcct 50

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 14
acacctggtt caaagatggg 20

<210> 15
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 15
taggaagagt tgctgaaggc acgg 24

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 16
ttgccttact caggtgctac 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 17
actcagcagt ggtaggaaag 20

<210> 18
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> Artificial sequence

<400> 18
tatccctcca attgagcacc ctgg 24

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 19
gtcggaagac atcccaacaa g 21

<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 20
cttcacaatg tcgctgtgct gctc 24

<210> 21
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 21
agccaaatcc agcagctggc ttac 24

<210> 22
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 22
tggatgaccg gagccactac acgtgtgaag tcacctggca gactcctgat 50

<210> 23
<211> 260
<212> PRT
<213> Homo sapiens

<400> 23
Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro Glu Val Arg
1 5 10 15
Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe
20 25 30
Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg
35 40 45
Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val
50 55 60
Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp
65 70 75 80
Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr
85 90 95

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Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
            100                 105                 110
Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val Leu
        115                 120                 125
Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr Trp Phe
    130                 135                 140
Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr Arg Ala Phe
145                 150                 155                 160
Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu Leu Val Phe
                165                 170                 175
Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg
            180                 185                 190
Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg Met Glu Ala
        195                 200                 205
Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu Val Thr Leu
    210                 215                 220
Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala Tyr Ser Arg
225                 230                 235                 240
Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys Lys Val Ile
                245                 250                 255
Tyr Ser Gln Pro
            260
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<210> 24
<211> 270
<212> PRT
<213> Homo sapiens

<400> 24

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Val Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro Gln Asp Val
 1               5                  10                  15
Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr His
            20                  25                  30
Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys Leu Leu
        35                  40                  45
Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser Asn Lys Asn
    50                  55                  60
Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile Ser Asn Asn
65                  70                  75                  80
Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala
                85                  90                  95
Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser Asp Leu Glu
            100                 105                 110
Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val Pro Pro Ser
        115                 120                 125
Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile
    130                 135                 140
Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser
145                 150                 155                 160
Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro
                165                 170                 175
Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser
            180                 185                 190
Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys
        195                 200                 205
Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr
    210                 215                 220
Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile
225                 230                 235                 240
Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp
                245                 250                 255
Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro
            260                 265                 270
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<210> 25

<211> 263
<212> PRT
<213> Homo sapiens

<400> 25
Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro
1 5 10 15
Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr
20 25 30
Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp
35 40 45
Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu
50 55 60
Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr
65 70 75 80
Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly
85 90 95
Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro
100 105 110
Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg
115 120 125
Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr
130 135 140
Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
145 150 155 160
Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu
165 170 175
Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys
180 185 190
Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg
195 200 205
Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu
210 215 220
Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala
225 230 235 240
Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys
245 250 255
Lys Val Ile Tyr Ser Gln Pro
260

<210> 26
<211> 273
<212> PRT
<213> Homo sapiens

<400> 26
Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro
1 5 10 15
Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys
20 25 30
Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp
35 40 45
Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
50 55 60
Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile
65 70 75 80
Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu
85 90 95
Thr Met Ala Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser
100 105 110
Asp Leu Glu Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val
115 120 125
Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly
130 135 140
Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro
145 150 155 160

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Gln Tyr Ser Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu
                165                 170                 175
Ala Gln Pro Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr
            180                 185                 190
Asp Thr Ser Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr
        195                 200                 205
Gln Phe Cys Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val
    210                 215                 220
Ala Leu Tyr Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile
225                 230                 235                 240
Ile Gly Ile Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn
                245                 250                 255
Thr Glu Asp Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu
            260                 265                 270
Pro
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<210> 27
<211> 413
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 27
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aggccaaaac ctggaagagg atacagtcac tctggaagta ttagtggctc cagcagttcc 120
atcatgtgaa gtaccctctt ctgctctgag tggaactgtg gtagagctac gatgtcaaga 180
caaagaaggg aatccagctc ctgaatacac atggtttaag gatggcatcc gtttgctaga 240
aaatcccaga cttggctccc aaagcaccaa cagctcatac acaatgaata caaaaactgg 300
aactctgcaa tttaatactg tttccaaact ggacactgga gaatattcct gtgaagcccg 360
caattctgtt ggatatcgca ggtgtcctgg ggaaacgaat gcaagtagat gat 413

<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 28
atcgttgtga agttagtgcc cc 22

<210> 29
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 29
acctgcgata tccaacagaa ttg 23

<210> 30
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 30
ggaagaggat acagtcactc tggaagtatt agtggctcca gcagttcc 48